

Author Index of Volume 71

- Adomaitis, R.A. 127
Altunbas, A. 135
Angelov, G. 1
Arai, N. 207
Azzopardi, B.J. 135
- Bai, D. 97
Betlem, B.H.L. 111
- Cen, K.F. 233
Chan, C. 163
Chang, J.-S. 77
Chen, G.-J. 145
Chen, L.H. 233
Churchill, S.W. 161
Churchill, S.W. 163
Churchill, S.W. 175
Churchill, S.W. 201
Churchill, S.W. 207
Churchill, S.W. 213
Clifford, M.J. 49
Cox, S.M. 49
- El-Nashar, I.M. 57
- Fan, J.R. 233
Farag, H.A. 57
Fawell, P.D. 67
Fukuda, T. 191
- Gül Boyaci, F. 37
Gan, Q. 87
Gourdon, C. 1
Guo, Z. 183
Guo, T.-M. 145
- Heng, L. 163
Huijnen, H. 111
- Iwamoto, M. 191
- Jin, J. 233
Jin, Y. 97
Jones, R.L. 67
Joshi, J.B. 11
- Kakimoto, K. 183
Kakimoto, K. 191
Kakimoto, K. 201
Kansuntisukmogkol, R. 213
- Kayar, A.M. 57
Kim, C. 221
Kobayashi, N. 207
Krijnsen, H.C. 111
Kumar, P. 11
- Liang, X.H. 233
Lim, C.S. 23
Lin, Y.-h. 127
Liné, A. 1
Lior, N. 221
Liu, Y.-J. 77
Lombardo, S.J. 243
- Maihara, R. 207
Mishra, V.P. 11
- Nakano, A. 175
- Özdamar, T.H. 37
Ozoe, H. 175
Ozoe, H. 183
Ozoe, H. 191
Ozoe, H. 201
Ozoe, H. 213
- Rahmat, H. 87
Richmond, W.R. 67
Roberts, E.P.L. 49
- Sedahmed, G.H. 57
Shinoda, M. 207
Suzuki, K. 191
- Takaç, S. 37
Ti, H.C. 23
Tomonari, H. 191
- Viswanathan, S. 153
- Weatherley, L.R. 87
West, A.C. 243
Wu, X. 183
- Yamanaka, Y. 201
Yu, Z. 97
- Zaidi, S.H. 135
Zhu, J.-X. 97

Subject Index of Volume 71

Aggregation

The relationship between particle aggregation and rheology in mixed silica–titania suspensions, 67

Agitated vessels

Mass transfer at the impellers of agitated vessels in relation to their flow-induced corrosion, 57

Batch distillation

Optimal batch distillation control based on specific measures, 111

Batch reactor

Implementing operating trajectories in an exothermic chemical batch reactor by a self-tuning single neuron controller, 77

Binder burnout

The role of thermal and transport properties on the binder burnout of injection-molded ceramic components, 243

Ceramic burner

The characteristics of a heat-recirculating ceramic burner, 207

Computer simulation

Simulation of FCC catalyst regeneration in a riser regenerator, 97

Concentrated suspensions

The relationship between particle aggregation and rheology in mixed silica–titania suspensions, 67

Conductively

A numerical analysis of NO_x formation and control in radiatively/conductively-stabilized pulverized coal combustors, 221

Control

Implementing operating trajectories in an exothermic chemical batch reactor by a self-tuning single neuron controller, 77

Crystallization

Numerical study of natural convection in Czochralski crystallization, 183

Czochralski configuration

Standing-oscillatory natural convection computed for molten silicon in Czochralski configuration, 191

Czochralski

Numerical study of natural convection in Czochralski crystallization, 183

Diakoptics

Mixed specification problems in large-scale pipeline networks, 23

Disc turbine

Flow generated by a disc turbine in aqueous solutions of polyacrylamide, 11

Drag reduction

Mass transfer at the impellers of agitated vessels in relation to their flow-induced corrosion, 57

Drop sizes

A comparative study of phase Doppler and laser diffraction techniques to investigate drop sizes in annular two-phase flow, 135

Erosion–corrosion

Mass transfer at the impellers of agitated vessels in relation to their flow-induced corrosion, 57

Experimental analysis

Experiments of a premixed flame inside a refractory tube, 213

Extraction column

Simulation of flow hydrodynamics in a pulsed solvent extraction column under turbulent regimes, 1

Fast fluidized bed

Simulation of FCC catalyst regeneration in a riser regenerator, 97

FCC regenerator

Simulation of FCC catalyst regeneration in a riser regenerator, 97

Flow structure

Simulation of flow hydrodynamics in a pulsed solvent extraction column under turbulent regimes, 1

Fluid catalytic cracking (FCC)

Simulation of FCC catalyst regeneration in a riser regenerator, 97

Focussed beam reflectance measurement

The relationship between particle aggregation and rheology in mixed silica–titania suspensions, 67

Formation mechanism

A new approach to gas hydrate modelling, 145

Free-radical chain reactions

Selective oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide in a gas–liquid reaction system using $\text{CuO}+\text{NaOH}_{\text{aq}}$ catalyst, 37

Galerkin projection

A technique for accurate collocation residual calculations, 127

Gas hydrate

A new approach to gas hydrate modelling, 145

Gas particle flow

Modeling of coal combustion and NO_x formation in a W-shaped boiler furnace, 233

Gas–liquid reaction with mass transfer limitation

Selective oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide in a gas–liquid reaction system using $\text{CuO}+\text{NaOH}_{\text{aq}}$ catalyst, 37

Heat flux density ratio

Essentially exact characteristics of turbulent convection in a round tube, 163

Heat recirculating

The characteristics of a heat-recirculating ceramic burner, 207

Heat transfer

Essentially exact characteristics of turbulent convection in a round tube, 163

Hydrodynamics

Simulation of flow hydrodynamics in a pulsed solvent extraction column under turbulent regimes, 1

Injection molded ceramic components

The role of thermal and transport properties on the binder burnout of injection-molded ceramic components, 243

- Integrated system
Simultaneous reaction and separation in enzymatic hydrolysis of high oleate sunflower oil – evaluation of ultrafiltration performance and process synergy, 87
- 2-Isopropylnaphthalene oxidation
Selective oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide in a gas–liquid reaction system using $\text{CuO} + \text{NaOH}_{\text{aq}}$ catalyst, 37
- 2-Isopropylnaphthalenehydroperoxide
Selective oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide in a gas–liquid reaction system using $\text{CuO} + \text{NaOH}_{\text{aq}}$ catalyst, 37
- Lamellar modelling
Lamellar modelling of reaction, diffusion and mixing in a two-dimensional flow, 49
- Lamellar structure
Lamellar modelling of reaction, diffusion and mixing in a two-dimensional flow, 49
- Laser diffraction
A comparative study of phase Doppler and laser diffraction techniques to investigate drop sizes in annular two-phase flow, 135
- Laser doppler anemometry
Flow generated by a disc turbine in aqueous solutions of polyacrylamide, 11
- Liquid gallium
Rayleigh–Benard oscillatory natural convection of liquid gallium heated from below, 201
- Low-Prandtl-number
Numerical computation of natural convection for a low-Prandtl-number fluid in a shallow rectangular region heated from below, 175
- Mass transfer
Mass transfer at the impellers of agitated vessels in relation to their flow-induced corrosion, 57
- Melt phase
Numerical study of natural convection in Czochralski crystallization, 183
- Mesh and nodal approaches
Mixed specification problems in large-scale pipeline networks, 23
- Method of weighted residual
A technique for accurate collocation residual calculations, 127
- Mixed specification
Mixed specification problems in large-scale pipeline networks, 23
- Modelling
A new approach to gas hydrate modelling, 145
- Multiple flame locations
Experiments of a premixed flame inside a refractory tube, 213
- Natural convection
Numerical computation of natural convection for a low-Prandtl-number fluid in a shallow rectangular region heated from below, 175
Numerical study of natural convection in Czochralski crystallization, 183
Rayleigh–Benard oscillatory natural convection of liquid gallium heated from below, 201
Standing-oscillatory natural convection computed for molten silicon in Czochralski configuration, 191
- Natural gas mixtures
A new approach to gas hydrate modelling, 145
- Nitric oxide
Modeling of coal combustion and NO_x formation in a W-shaped boiler furnace, 233
- Numerical analysis
A technique for accurate collocation residual calculations, 127
- Optimal control
Optimal batch distillation control based on specific measures, 111
- Optimisation
Optimal batch distillation control based on specific measures, 111
- Orthogonal collocation
A technique for accurate collocation residual calculations, 127
- Oscillation
Standing-oscillatory natural convection computed for molten silicon in Czochralski configuration, 191
- Partitioning
Mixed specification problems in large-scale pipeline networks, 23
- Phase doppler
A comparative study of phase Doppler and laser diffraction techniques to investigate drop sizes in annular two-phase flow, 135
- Pipeline network
Mixed specification problems in large-scale pipeline networks, 23
- Polyacrylamide
Flow generated by a disc turbine in aqueous solutions of polyacrylamide, 11
- Pre-mixed flames
Experiments of a premixed flame inside a refractory tube, 213
- Pressure drop
Development of a pressure drop model for a variable throat venturi scrubber, 153
- Product distribution and selectivity
Selective oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide in a gas–liquid reaction system using $\text{CuO} + \text{NaOH}_{\text{aq}}$ catalyst, 37
- Pulverized fuel
Modeling of coal combustion and NO_x formation in a W-shaped boiler furnace, 233
- Radiatively
A numerical analysis of NO_x formation and control in radiatively/conductively-stabilized pulverized coal combustors, 221
- Rayleigh–Benard
Rayleigh–Benard oscillatory natural convection of liquid gallium heated from below, 201
- Recycle policies
Optimal batch distillation control based on specific measures, 111
- Reynolds analogy
Essentially exact characteristics of turbulent convection in a round tube, 163
- Rheology
The relationship between particle aggregation and rheology in mixed silica–titania suspensions, 67
- Riser regeneration
Simulation of FCC catalyst regeneration in a riser regenerator, 97
- Silica
The relationship between particle aggregation and rheology in mixed silica–titania suspensions, 67
- Simulation
Optimal batch distillation control based on specific measures, 111
- Simultaneous reaction and separation
Simultaneous reaction and separation in enzymatic hydrolysis of high oleate sunflower oil – evaluation of ultrafiltration performance and process synergy, 87
- Stabilized combustors
A numerical analysis of NO_x formation and control in radiatively/conductively-stabilized pulverized coal combustors, 221
- Thermal and transport properties
The role of thermal and transport properties on the binder burnout of injection-molded ceramic components, 243

Thermal performance

The characteristics of a heat-recirculating ceramic burner, 207

Thermal stabilizations

Experiments of a premixed flame inside a refractory tube, 213

Titanium dioxide

The relationship between particle aggregation and rheology in mixed silica–titania suspensions, 67

Trajectory tracking

Implementing operating trajectories in an exothermic chemical batch reactor by a self-tuning single neuron controller, 77

Transformation

Mixed specification problems in large-scale pipeline networks, 23

Turbulent flow

Simulation of flow hydrodynamics in a pulsed solvent extraction column under turbulent regimes, 1

Turbulent heat flux density

Essentially exact characteristics of turbulent convection in a round tube, 163

Turbulent modeling

Essentially exact characteristics of turbulent convection in a round tube, 163

Two-dimensional flow

Lamellar modelling of reaction, diffusion and mixing in a two-dimensional flow, 49

Ultrafiltration

Simultaneous reaction and separation in enzymatic hydrolysis of high oleate sunflower oil – evaluation of ultrafiltration performance and process synergy, 87

Variable throat

Development of a pressure drop model for a variable throat venturi scrubber, 153

Venturi scrubber

Development of a pressure drop model for a variable throat venturi scrubber, 153

